Thermal Conductivity and Thermal Diffusivity of Liquid n-Pentane

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The thermal conductivity and thermal diffusivity of liquid n-Pentane has been measured over the temperature range 293 K to 428 K at pressures from 3.5 MPa using a new transient hot-wire instrument. The results are presented as a correlation of temperature and density. The accuracy of the results is estimated to be better than ± 1% for thermal conductivity and ± 4% for thermal diffusivity.